

bs-5871R**[Primary Antibody]****KLK8 Rabbit pAb****Bioss**
ANTIBODIES

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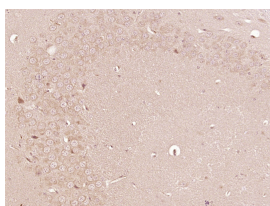
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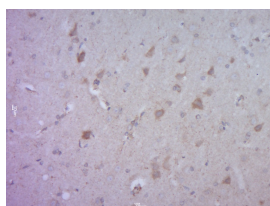
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— DATASHEET —

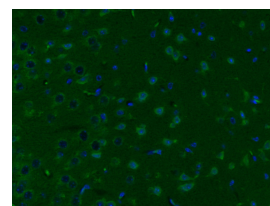
Host: Rabbit	Isotype: IgG	Applications: IHC-P (1:100-500)
Clonality: Polyclonal		IHC-F (1:100-500)
GeneID: 11202	SWISS: O60259	IF (1:200-800)
Target: KLK8		Reactivity: Mouse, Rat (predicted: Human, Pig, Cow, Dog, GuineaPig, Horse)
Immunogen: KLH conjugated synthetic peptide derived from human KLK8: 51-150/260.		Predicted MW.: 28 kDa
Purification: affinity purified by Protein A		Subcellular Location: Secreted ,Cytoplasm
Concentration: 1mg/ml		
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
Background: Kallikrein 8 (hK8), also known as neuropsin, brain serine protease 1 (BSP1), tumor associated differentially expressed gene 14 (TADG14), PRSS19, HNP and ovasin, is a trypsin like serine protease. Originally described from mouse brain, KLK8 was implicated in neural plasticity and learning. Kallikrein 8 is thought to be involved in neurite outgrowth and fasciculation during nervous system development. Kallikrein 8 is induced in neurite injury, and Kallikrein 8 has been shown to be elevated in the hippocampus on Alzheimer' s patients' brains. Animal models of autoimmune encephalomyelitis (EAE) show elevated Kallikrein 8 production. Kallikrein 8 null mice have aberrant synapses in their hippocampus, compared to wild type mice, and are predisposed to seizures. Kallikrein 8 is thought to regulate the early phase of long-term potentiation (LTP), possibly by cleaving fibronectin and other substrates. Kallikrein 8 is also found in the uterus, where it is hormonally regulated. Cervical cancer cell lines express high levels of Kallikrein 8, and it may be useful as a tumor marker. Kallikrein 8 is not limited to the brain and uterus, as many tissues and cell lines make the protein. Endogenous inhibitors include serine protease inhibitor 3 and protein C inhibitor, although Kallikrein 8 can be found complexed to a number of different protease inhibitors.		

— VALIDATION IMAGES —

Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (KLK8) Polyclonal Antibody, Unconjugated (bs-5871R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (KLK8) Polyclonal Antibody, Unconjugated (bs-5871R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (KLK8) Polyclonal Antibody, Unconjugated (bs-5871R) at 1:400 overnight at 4°C, followed by a conjugated Goat Anti-Rabbit IgG antibody (bs-0295G-FITC) for 90 minutes, and DAPI for nuclei staining.

— SELECTED CITATIONS —

- **[IF=1.116]** Wang HE et al. Increase of Serum Kallikrein-8 Level After Long-term Telbivudine Treatment. *In Vivo*. 2018 Jul-Aug;32(4):955-960. WB ;Human. 29936485